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1-800-Belden1



### General Description:

12 AWG solid .086" bare copper conductor, foam polyethylene insulation, Duobond IV® quad shield (100% coverage), PVC jacket.

### Usage (Overall)

**Suitable Applications:** Thick Ethernet

### Physical Characteristics (Overall)

#### Conductor

**AWG:**

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	12	Solid	BC - Bare Copper	2.1844

**Total Number of Conductors:** 1

#### Insulation

**Insulation Material:**

Insulation Material	Dia. (mm)
FPE - Foam Polyethylene	6.1722

#### Outer Shield

**Outer Shield Material:**

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Bonded Duofoil®	Tape	Bonded Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	94
3	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
4		Braid	TC - Tinned Copper	90

#### Outer Jacket

**Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

#### Overall Cable

**Overall Nominal Diameter:** 10.287 mm

### Mechanical Characteristics (Overall)

**Operating Temperature Range:** -40°C To +60°C

**UL Temperature Rating:** 60°C (UL AWM Style 1478)

**Bulk Cable Weight:** 181.560 Kg/Km

**Max. Recommended Pulling Tension:** 1134.291 N

**Min. Bend Radius/Minor Axis:** 107.950 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

**NEC/(UL) Specification:** CL2, CM

**CEC/C(UL) Specification:** CM

## 9880 Coax - Coaxial Cable - Thicknet 10Base5 Ethernet

**AWM Specification:** UL Style 1478 (30 V 60°C)

**EU Directive 2011/65/EU (ROHS II):** Yes

**IEEE Specification:** IEEE802.3 10Base5

**EU CE Mark:** Yes

**EU Directive 2000/53/EC (ELV):** Yes

**EU Directive 2002/95/EC (RoHS):** Yes

**EU RoHS Compliance Date (mm/dd/yyyy):** 01/01/2004

**EU Directive 2002/96/EC (WEEE):** Yes

**EU Directive 2003/11/EC (BFR):** Yes

**CA Prop 65 (CJ for Wire & Cable):** Yes

**MII Order #39 (China RoHS):** Yes

**Customer Part Number Reference Specification:** DEC Part No. 17-00451-00

### Flame Test

**UL Flame Test:** UL1685 UL Loading

### Plenum/Non-Plenum

**Plenum (Y/N):** No

**Plenum Number:** 89880

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)	Tolerance (Ohms)
50	+/- 2

### Nom. Inductance:

Inductance (µH/m)
0.213265

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
85.306

### Nominal Velocity of Propagation:

VP (%)
78

### Nominal Delay:

Delay (ns/m)
4.2653

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
4.65902

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
4.98712

### Max. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	0.62339
5	1.21397
10	1.70612
50	3.9372
100	5.5777
200	8.36655
400	12.7959
700	18.0455

## 9880 Coax - Coaxial Cable - Thicknet 10Base5 Ethernet

900	21.3265
1000	22.6389
1500	27.8885
2000	33.1381
2500	37.7315
3000	42.653

### Max. Operating Voltage - UL:

Voltage	Description
300 V RMS	
30 V RMS	UL AWM 1478

### Notes (Overall)

**Notes:** Ringband stripes every 2.5 meters to aid users in tap placement.

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9880 0041000	1,000 FT	131.000 LB	YELLOW	C	11H 50 OHM TRUNK CABLE
9880 0041640	1,640 FT	219.760 LB	YELLOW	C	11H 50 OHM TRUNK CABLE
9880 004500	500 FT	66.000 LB	YELLOW	C	11H 50 OHM TRUNK CABLE

**Notes:**

C = CRATE REEL PUT-UP.

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